

ABSTRACT

A front end tuner for receiving TV signals and the like includes a frequency conversion circuit including a mixer for beating a local signal with received signals within a predetermined band of frequencies to provide selected signals within a predetermined band of frequencies to provide selected signals within a predetermined channel band of frequencies. A signal converter circuit generates digitally encoded signal representations of the selected signals. The frequency conversion circuit and the signal converter circuit are in a form of an integrated circuit within a semiconductor substrate. In a TV receiver, on-following digital processing of the digitally encoded signals is performed in a microcomputer. In one example a channel selection code is used by the microcomputer to synthesize the local oscillator signal and in another example the signal converter circuit is a codec, responsive to codes from the microprocessor, to supply a control voltage for controlling a local oscillator. From time to time channel selection is automatically fine tuned.